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**ELECTRONIC** 

APPLICATION NO.	FILING DATE	. FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/736,019	12/15/2003	Gary Lynn Hanley	CGT-120	4149
24115 7590 03/23/2007 BUCKINGHAM, DOOLITTLE & BURROUGHS, LLP			EXAMINER	
3800 EMBASSY PARKWAY SUITE 300 AKRON, OH 44333-8332			OMGBA, ESSAMA	
			ART UNIT	PAPER NUMBER
			3726	
			•	
SHORTENED STATUTORY PE	RIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE	

# Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

03/23/2007

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 3 MONTHS from 03/23/2007.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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3 MONTHS

	Application No.	Applicant(s)	
	10/736,019	HANLEY, GARY LYNN	
Office Action Summary	Examiner	Art Unit	
	Essama Omgba	3726	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the meaned patent term adjustment. See 37 CFR 1.704(b).	B DATE OF THIS COMMUNI R 1.136(a). In no event, however, may a r ind will apply and will expire SIX (6) MON atute, cause the application to become Al	CATION. Teply be timely filed  ITHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 2	6 February 2007.		
	This action is non-final.		
3) Since this application is in condition for allo	wance except for formal mat	ers, prosecution as to the merits is	•
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.E	. 11, 453 O.G. 213.	
Disposition of Claims		•	
4) Claim(s) 1-27 is/are pending in the applicat	ion.		
4a) Of the above claim(s) is/are with	drawn from consideration.		
5) Claim(s) is/are allowed.		•	
6)⊠ Claim(s) <u>1-27</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction an	d/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	niner.		
10) The drawing(s) filed on is/are: a)	accepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the cor	rection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).	
11) The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C. §	119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:		•	
1. Certified copies of the priority docum	ents have been received.		
2. Certified copies of the priority docum	ents have been received in A	pplication No	
3. Copies of the certified copies of the p	•	received in this National Stage	
application from the International Bu	` , , , ,		
* See the attached detailed Office action for a	list of the certified copies not	received.	
·	•		
Attachment(s)			
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO/SB/08)</li> </ol>		s)/Mail Date nformal Patent Application	
Paper No(s)/Mail Date	6)  Other:	• •	

Art Unit: 3726

#### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on February 26, 2007 has been entered.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Sangeeta et al. (US Patent 5,976,265).

Sangeeta discloses a process for removing a thermal barrier coating form a metallic substrate surface (col. 1, lines 11-19 and col. 2, lines 26-28), the method comprising directing an air jet at the thermal barrier coating on the substrate surface of the component, the jet comprising non-abrasive particulate media such as glass beads, the average particle size being less than 500 microns, the air jet being directed at the thermal barrier coating at a pressure less than about 40 psi sufficient to remove the

Application/Control Number: 10/736,019

Art Unit: 3726

thermal barrier coating but insufficient to damage the substrate surface, see column 5, lines 54-67, column 7, lines 53-67 and column 8, lines 1-4.

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 8-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art (AAPA) in view of Sangeeta et al.

Applicant, at pages 1-3 of the specification to be known as AAPA, discloses known methods of removing thermal barrier coatings from turbine blades as well as from laser drilled cooling holes in turbine hot section components. Known methods include waterjet blasting to remove barrier coating from components during manufacturing and repair, including air-cooled components, which creates wear and erosion of the underlying substrate. AAPA does not disclose directing an air jet at the thermal barrier coating on the substrate coating, the jet containing non-abrasive particulate media and being emitted from a nozzle at a low pressure insufficient to damage the substrate surface. However Sangeeta et al. teaches such thermal barrier removing process, see column 5, lines 54-67, column 7, lines 53-67 and column 8, lines 1-4. Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made, to have removed the thermal barrier coating from the cooling

Application/Control Number: 10/736,019

Art Unit: 3726

holes of a metallic turbine engine by directing an air jet at the thermal barrier coating, the jet containing non-abrasive particulate media and being emitted from a nozzle at a low pressure, in light of the teachings of Sangeeta et al., in order to remove the thermal barrier coating without damaging the underlying metallic surface of the substrate.

# Response to Arguments

6. Applicant's arguments with respect to claims 1-27, including the filed affidavit, have been considered but are moot in view of the new ground(s) of rejection.

### Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Essama Omgba whose telephone number is (571) 272-4532. The examiner can normally be reached on M-F 9-6:30, 1st Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bryant can be reached on (571) 272-4526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/736,019

Art Unit: 3726

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner

Art Unit 3726

eo March